

ANSWERS

MOD 2B

5. 180 people
6. 150 people
7. 13 people
8. rock

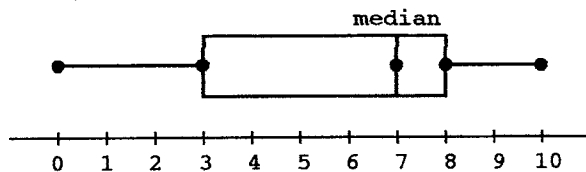
3. not a function
domain: $-3, -5, 8, 10$
range: $7, 8$
4. function
domain: $18, 20, -20, -7, 8$
range: $11, 12, -8, -1.5$

Lesson 4.6

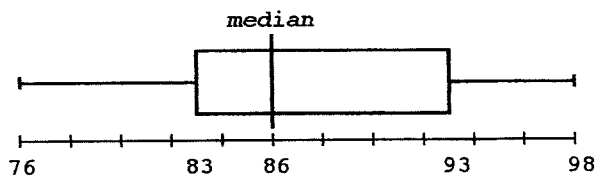
1. 30
2. 84
3. 82.9
4. 80

Stems	Leaves
6	5
7	0 0 2
8	0 0 0 2 6 6
9	0 0 2 4 5 5

5. 0; 10; 7; 3; 8



6. 76; 98; 85.5; 83; 93



Reteaching—Chapter 5

Lesson 5.1

1. function
domain: $1.3, 3.1, 10, 12$
range: $-1.3, 2.3, 10, 21$
2. function
domain: $1, 2, 3, 4, 5, 6$
range: $64, 32, 16, 8, 4, 2$

5. $y = 32$ and $x = \frac{3}{2}$
6. $y = -30$ and $x = -\frac{63}{2}$
7. $y = 6x - 1$
8. $y = 4x + 0.4$

Lesson 5.2

1. negative
2. positive
3. undefined
4. 0
5. $\frac{1}{2}$
6. -2
7. 1
8. -1
9. 2
10. $\frac{1}{2}$
11. $\frac{3}{5}$
12. $-\frac{4}{7}$

Lesson 5.3

1. $\frac{4}{3}$
2. $\frac{1}{3}$
3. 2

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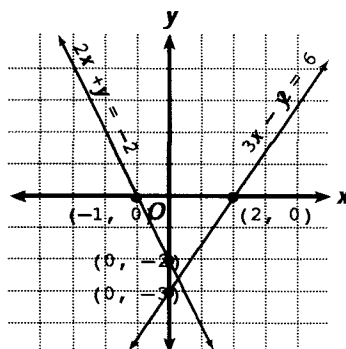
4. $\frac{4}{5}$
5. 0
6. $\frac{9}{5}$
7. $\frac{3}{2}$
8. undefined
9. $\frac{4}{5}$
10. 6.5; $y = 6.5x$; \$78, \$97.50
11. $\frac{1}{7}$; $y = \frac{1}{7}x$; 21, 20

Lesson 5.4

1. slope = 3; y-intercept = -1
2. slope = $\frac{1}{2}$; y-intercept = 2
3. slope = -1; y-intercept = $\frac{1}{2}$
4. $y = 2x - 1$
5. $y = \frac{1}{3}x - 3$
6. $y = 2x - 1$
7. $y = -3x + 2$
8. $y = \frac{1}{2}x + 3$
9. $y = x - 1$
10. $y = 3x + 1$
11. $y = -\frac{2}{3}x - 2$
12. $y = -\frac{2}{3}x - 2$
13. $y = 3x + 5$
14. \$20
15. 7

Lesson 5.5

1. $5x - 10y = 15$
2. $2x - 3y = 0$
3. $2x - 5y = 5$
4. $6x - y = 12$
5. $(0, -2)$; $(-1, 0)$
6. $(0, -3)$; $(2, 0)$



7. $y + 1 = \frac{1}{2}(x - 4)$
8. $y - 6 = 2x$ or $y = 2(x + 3)$
9. $y - 2 = \frac{1}{3}(x - 3)$ or $y + 1 = \frac{1}{3}(x + 6)$
10. $y = \frac{1}{2}x - 3$
11. $y = -\frac{1}{2}x + 6$
12. $y = \frac{1}{3}x + 1$
13. Point-slope form is easier when you are given a point and the slope of a line. Slope-intercept form is easier when you are given the slope and the y-intercept of a line.

Lesson 5.6

1. $-\frac{1}{2}$
2. -3
3. $\frac{2}{3}$
4. -4

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5. $y + 4 = 3(x + 1)$

6. $y + 4 = \frac{1}{2}(x - 2)$

7. $x = -2$

8. $y - 15 = \frac{3}{2}(x - 4)$

9. $y = -6$

10. $-\frac{1}{2}$

11. -3

12. $\frac{4}{3}$

13. 2

14. undefined

15. 0

16. $y - 3 = \frac{1}{2}(x - 2)$

17. $x = 1$

18. $y - 4 = -\frac{3}{2}(x - 3)$

19. $y - 1 = 2(x - 4)$

20. $y = 6$

Reteaching—Chapter 6

Lesson 6.1

1. $x > 60$

2. $m \geq 25.5$

3. $m \geq 1$

4. $a < -8$

5. $z \leq 4$

6. $b \leq -14$

7. $x > 30$

8. $b \leq 13$

9. $y > 15$

10. $s > 67.1$

11. $z \leq -5$

12. $x > 61,450$

13. $200 \leq S \leq 600$

14. $6 \leq S < 30$

15. $45 \leq S \leq 99$

16. $9 < S < 23$

Lesson 6.2

1. $y \leq 15$

2. $a > 8$

3. $m < 8$

4. $b \leq -3$

5. $r > -12$

6. $d \geq -40$

7. $x < 8$

8. $p \geq -5$

9. $y \leq 3$

10. $x + 5 \geq 8; x \geq 3$

11. $0.12x \geq 5; 50$

12. $9x \leq 85$; no more than 9 T-shirts

13. $1.65c \leq 20$; no more than 12 cards

14. $4.75x \geq 120$; at least 26 hours

15. $y \leq 5$

16. $a > 8$

17. $m \leq 5$